

# Tricks of the Trade: Processes to Ensure NPS TMDLs are Implemented (Part I): Among State Programs

## The Southwestern Perspective

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The TMDL Program in Transition  
The NPS Problem:  
Designing TMDLs for Implementation  
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# Arizona- it's a dry heat!

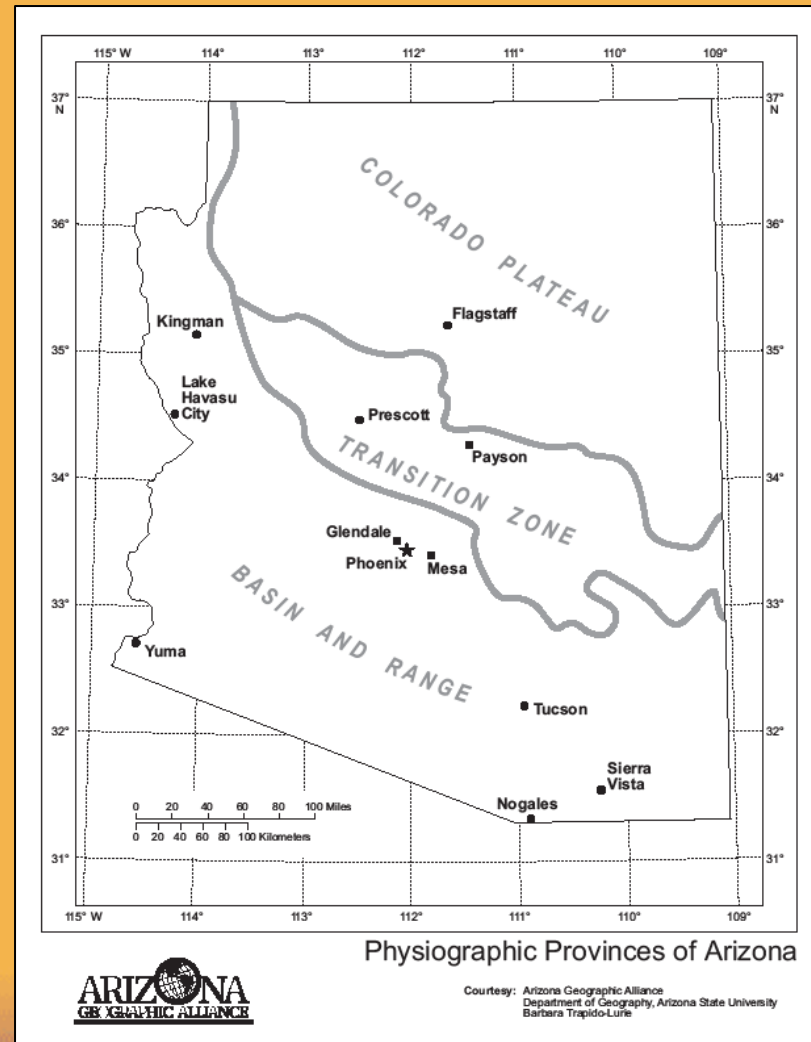
Streams- 90% ephemeral  
6% intermittent  
4% perennial

Lakes- most man-made and shallow

Three physiographic provinces

Landownership- Private 16%  
Federal 43%  
State 13%  
Tribal 28%

Population- 6.5 million













# Major Arizona Resources

- ◆ Copper
- ◆ Cotton
- ◆ Cattle
- ◆ Citrus
- ◆ Climate



# Arizona's NPS Program Structure

- ◆ ADEQ

  - Surface Water Section
  - Planning Section
  - Groundwater Section

- ◆ University of Arizona

  - Master Watershed Stewards
  - NEMO

- ◆ USFS

- ◆ Intended TMDL Audience-

  - General Public
  - Federal and State Land Management Agencies
  - Conservation, Environmental, Watershed Groups

# Roadblocks To Implementation

- ◆ Arizona Revised Statute 49-234(G)- “Any reductions in loadings from nonpoint sources shall be achieved voluntarily”
- ◆ Limited use of existing “authorities”
- ◆ Conveying the implications of impairment to stakeholders
- ◆ Perception of government intervention in rural affairs
- ◆ Lack of motivation to take on a project

# Roadblocks Continued

- ◆Lack of motivation to take on a project
- ◆Ability to fund a project
- ◆Identifying critical sites within the watershed
- ◆NPS responsibilities are dispersed among several programs
- ◆Variable cross border water quality standards, permit requirements sources, and cooperation



# Breaking Through

## Internal communication

- Coordinate efforts between the various NPS related programs
- Prioritize impaired waters for 319 funding

## Engage watershed partners

- Attend watershed group meetings
- Memorandums of Understanding/ Intergovernmental Agreements

## Technical Support

- Support Master Watershed Steward educational opportunities
- Provide sample collection training and funding
- Develop watershed based plans for all 10 basins

## Develop stronger 5-year NPS Plan

# New ideas

- ◆ Measure the effectiveness of past 319 Projects
- ◆ Outcome based grants
- ◆ Targeted watershed grants
- ◆ Impaired Watershed Tracking Log
- ◆ Watershed approach
- ◆ Focusing education towards empowering watershed partners



Questions?

